MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN **FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME**	**COURSE CODE** **D10D-601011**
Module designation	Animal Reproduction	
Semester(s) in which the module is taught	6	
Person(s) responsible for the module	1. Dr. Desak Made Malini, M.Si 2. Dr.Yasmi P. Kuntana, MP 3. Dr. Madihah, M.Si	
Medium of instruction	Indonesian	
Relation to curriculum	Elective course	
Teaching methods	Lectures, discussions, cooperative learning, and inquiry learning, project based learning	
Workload	Total workload : 5440 minutes = 90.67 hours Lectures, discussions, cooperative learning, and inquiry learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours	
Credit points	2,00 (3,62 ECTS)	
Required and recommended prerequisites for joining the module	Animal Structure and Physiology	
Module objectives/intended learning outcomes	1. Know and understand the scientific scope of Animal Reproduction 2. Be able to explain the reproductive anatomy of male and female animals and the process of gametogenesis 3. Be able to explain the structure and function of the pituitary gland and its relationship with reproductive hormones, animal mating cycles & seasons 4. Be able to explain the Embryogenesis process 5. Be able to explain special reproductive patterns in mammals 6. Able to explain the mechanisms of implantation, pregnancy and parturition 7. Able to explain fertility, fecundity, sterility 8. Able to explain and understand Animal Reproduction Technology	
Contents	The Animal Reproduction course studies about the scientific scope of Animal Reproduction. After taking this course, students are able to explain the reproductive anatomy of male and female animals and the process of gametogenesis. 1. Course contract 2. Reproductive anatomy 3. Reproductive hormones, cycles, and seasons 4. Special reproductive patterns in mammals 5. Fertility 6. Sex determination 7. Embryogenesis 8. Implantation 9. Clooning reproductive cloning, and therapeutic cloning	

Examination forms	Quiz, midterm exam, assignment, and final exam
Study and examination requirements	The minimum attendance in lectures is 80%. Final grades are evaluated based on quiz (10%), midterm exam (15%), assignment (10%), final exam (15%), project and participation (50%)
Reading lists	1. Gilbert, S.F. 2000. Developmental Biology, 6th ed. Sunderland: Sinauer Associates, Inc. 2. Johnson, M. & B. Everitt. 1988. Essential Reproduction, 3rd ed. Oxford: Blackwell Scientific Publications 3. Sadler, T.W. 1990. Langmans medical Embriology. 6 th ed. Baltimore Mariland: Williams & Wilkins 4. Carlson, B. M. 1996. Patten's foundations of embryology, 6th ed. New York: McGraw-Hill, Inc 5. Martini F. 1989. Fundamentals of Anatomy and Physiology. Prentice Hall International Edition. 6. Turner, C.D. & Joseph T.B. 1976. Endokrinologi Umum. Airlangga University Press 7. Hafez, E. S. E., & Hafez, B. (Eds.). (2022). Reproduction in Farm Animals (Edisi ke-8). Wiley-Blackwell. 8. Johnson, M. H., & Losos, J. B. (2022). Essential Reproduction (Edisi ke-8). Wiley-Blackwell.